Imperial Space Lab
@
iCubeSat 2015

Prof Steve Schwartz, Director

Imperial College London
http://www.imperial.ac.uk/spacelab

26 May 2015
Imperial College London: A top-ranked University

<table>
<thead>
<tr>
<th>Source</th>
<th>World</th>
<th>UK</th>
</tr>
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<tbody>
<tr>
<td>QS 2015</td>
<td>2</td>
<td>1</td>
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<tr>
<td>THES 2014</td>
<td>10</td>
<td>3</td>
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**QS 2015 Department rankings**

<table>
<thead>
<tr>
<th>Department</th>
<th>World</th>
<th>UK</th>
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<tbody>
<tr>
<td>Physics</td>
<td>10</td>
<td>3</td>
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<tr>
<td>Mathematics</td>
<td>11</td>
<td>3</td>
</tr>
<tr>
<td>Material Science</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Mech, Aero, Manu Eng</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Elec &amp; Electronic Eng</td>
<td>8</td>
<td>3</td>
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</tbody>
</table>
Imperial Space Lab

• >140 members from 10 departments
• 4 Faculties: Nat Sci; Eng; Med; Bus School
• Multi-disciplinary Institutes
  - Grantham Inst Climate Change & Env
  - Data Sciences Institute
  - Energy Futures Lab
  - Inst. Security Sci & Tech
• Finances
  - PIs on ∼ 270 grants; total value ∼ £90M
  - Annual income ∼ £20M of which
  - 25-35% direct space
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**Space Science**

- Earth Sciences Engineering (space exploration, astromaterials, meteoritics)

**Space Technology**

- Civil Engineering (transport, sensor networks)

**Earth Observation and Remote Sensing**

- Environmental Policy

**Natural and Space Hazards**

- Electrical Engineering (communications, signal processing, pervasive sensing, power sources)

**Telecomms**

- Computing (remote sensing, software, data analysis and security)

**Position, Navigation, Timing**

- Business School

**Grantham Institute for Climate Change**

- Mathematics (laminar flow)

**Electrical Engineering**

- Materials (instrumentation)

**Physics**

- Environmental Policy (atmospheric science, climate, space weather)

- Earth Sciences Engineering (remote sensing, climate, environment monitoring)

- Aeronautics
Telecomms, Natural Hazards, Navigation
Imperial Space Lab

Underpinning Computing and Data Science

- **Space Science**
- **Space Technology**
- **Earth Observation and Remote Sensing**
- **Natural and Space Hazards**
- **Telecomms**
- **Position, Navigation, Timing**
- **END USERS**

**Faculty of Medicine**
- **Physics** (atmospheric science, climate, space weather)
- **Earth Sciences Engineering** (remote sensing, climate, environment monitoring)
- **Civil Engineering** (transport, sensor networks)

**Business School**
- **Electrical Engineering** (communications, signal processing, pervasive sensing, power sources)
- **Environmental Policy**
- **Grantham Institute for Climate Change**

**Aeronautics**
- **Maths** (laminar flow)
- **Materials**
- **Electrical Engineering** (instrumentation)

**Earth Sciences**
- **Electrical Engineering** (remote sensing, climate, environment monitoring)
- **Physics** (space instrumentation, planetary science, heliospheric and space physics, astrophysics, astrostatistics, high energy physics, plasma physics, photonics)
- **Earth Sciences Engineering** (space exploration, astromaterials, meteoritics)

**Computing** (remote sensing, software, data analysis and security)